Contents

Anding, G., s. Theimer, R.R., *et al.* 41

Bachmann, P., Kornmann, P., Zetsche, K.: Regulation der Entwicklung und des Stoffwechsels der Grünalge *Urospora* durch die Temperatur 241

Bahn, M., s. Molowitz, R., *et al.* 143

Basiouny, F.M., Biggs, R.H.: Pectin-Polygalacturonase in *Citrus* 271

Biggs, R.H., s. Basiouny, F.M. 271

Bopp, M., s. Mäder, M. 247

Bowles, D.J., Northcote, D.H.: The Size and Distribution of Polysaccharides during their Synthesis within the Membrane System of Maize Root Cells 101

Bretz, N., s. Haupt, W. 1

Briceno, M., s. Wulff, R. 195

Butt, V.S., s. Grodzinski, B. 225

Child, J.J., s. Gibson, A.H., *et al.* 233

Clarkson, D.T., s. Ferguson, J.B. 267

Cleland, R.E.: Fusicoccin-induced Growth and Hydrogen Ion Excretion of *Avena* Coleoptiles: Relation to Auxin Responses 201

Colman, B., s. Ingle, R.K. 217

Deurenberg, J.J.M.: *In vitro* Protein Synthesis with Polysomes from Unpollinated, Cross- and Self-pollinated *Petunia* Ovaries 29

Dickson, R.E., s. Isebrands, J.G., *et al.* 185

Falk, H.: Chromoplasts of *Tropaeolum majus* L.: Structure and Development 15

Falk, H., s. Winkenbach, F., *et al.* 23

Feldman, L.J.: The *de Novo* Origin of the Quiescent Center Regenerating Root Apices of *Zea mays* 207

Ferguson, I.B., Clarkson, D.T.: Simultaneous Uptake and Translocation of Magnesium and Calcium in Barley (*Hordeum vulgare* L.) Roots 267

Gewitz, H.-S., s. Pistorius, E.K. *et al.* 73

Gibson, A.H., Child, J.J., Pagan, J.D., Scowcroft, W.R.: The Induction of Nitrogenase Activity in *Rhizobium* by Nonlegume Plant Cells 233

Grodzinski, B., Butt, V.S.: Hydrogen Peroxide Production and the Release of Carbon Dioxide during Glycollate Oxidation in Leaf Peroxisomes 225

Guruprasad, K.N., s. Laloraya, M.M., *et al.* 275

Haddon, L., Northcote, D.H.: Correlation of the Induction of Various Enzymes Concerned with Phenylpropanoid and Lignin Synthesis during Differentiation of Bean Callus (*Phaseolus vulgaris* L.) 255

Hartung, W.: Der basipetale [2-^{14}C] Abscisinsäuretransport in Wurzeln intakter Bohnenkeimlinge und seine Bedeutung für den Wurzelgeotropismus 59

Haupt, W., Bretz, N.: Short-Term Reactions of Phytochrome in *Mougeotia?* 1

Haxo, F.T., s. Prezelin, B.B. 133

Hock, B., s. Molowitz, R., *et al.* 143

Ingle, R.K., Colman, B.: The Relationship between Carbonic Anhydrase Activity and Glycolate Excretion in the Bluegreen Alga *Coccochloris peniocystis* 217

Isebrands, J.G., Dickson, R.E., Larson, P.R.: Translocation and Incorporation of ^{14}C into the Petiole from Different Regions within Developing Cottonwood Leaves 185

Jeschke, W.D., Stelter, W.: Measurement of Longitudinal Ion Profiles in Single Roots of *Hordeum* and *Atriplex* by Use of Flameless Atomic Absorption Spectroscopy 107

Jetschmann, K., s. Vennesland, B. 81

Johnson, C.B.: Rapid Activation by Phytochrome of Nitrate Reductase in the Cotyledons of *Sinapis alba* 127

Kennedy, R.A.: Relationship between Leaf Development, Carboxylase Enzyme Activities and Photorespiration in the C_4-Plant *Portulaca oleracea* L. 149

Kornmann, P., s. Bachmann, P., *et al.* 241

Kowallik, W., Ruyters, G.: Über Aktivitätssteigerungen der Pyruvatkinase durch Blaulicht oder Glucose bei einer chlorophyllfreien *Chlorella*-Mutante 11

Laloraya, M.M., Srivastav, H.N., Guruprasad, K.N.: Recovery of Gibberellic Acid Inhibition of Betacyanin Biosynthesis by Pigment Precursors 275

Larkin, P.L.: Purification and Viability Determinations of Plant Protoplasts 213

Larson, P.R., s. Isebrands, J.G., *et al.* 185

Liedvogel, B., s. Winkenbach, F., *et al.* 23

Macklon, A.E.S., Sim, A.: Cortical Cell Fluxes and Transport to the Stele in Excised Root Segments of *Allium cepa* L. III. Magnesium 5

Mäder, M., Bopp, M.: Neue Vorstellungen zum Problem der Isoperoxidasen anhand der Trennung durch Disk-Elektrophorese und isoelektrische Fokussierung 247

Matzner, P., s. Theimer, R.R., *et al.* 41

Molowitz, R., Bahn, M., Hock, B.: The Control of Fruiting Body Formation in the Ascomycete *Sordaria macrospora* Auersw. by Arginine and Biotin: a Two-factor Analysis . 143

Moncur, L., s. Wardlaw, I.F. 93

Moore, L.F., Traquair, J.A.: Silicon, a Required Nutrient for *Cladophora glomerata* (L.) Kütz. (Chlorophyta) 179

Northcote, D.H., s. Bowles, D.J. 101

Northcode, D.H., s. Haddon, L. 255

Osmond, C.B., s. Ziegler, H., *et al.* 85

Pagan, J.D., s. Gibson, A.H., *et al.* 233

Pate, J.S., s. Sharkey, P.J. 63

Pearson, C.J., s. Steer, B.T. 155

Pernet, J.J., Pilet, P.E.: Indoleacetic Acid Movement in the Root Cap 183

Pilet, P.E., s. Pernet, J.J. 183

Pistorius, E.K., Gewitz, H.-S., Voss, H., Vennesland, B.: Reversible Inactivation of Nitrate Reductase in *Chlorella vulgaris in vivo* 73

Pitman, M.G., s. Wildes, R.A., *et al.* 35

Prézelin, B.B., Haxo, F.T.: Purification and Characterization of Peridinin-Chlorophyll *a*-Proteins from the Marine Dinoflagellates *Glenodinium sp.* and *Gonyaulax polyedra* . . . 133

Robins, R.J.: The Nature of the Stimuli Causing Digestive Juice Secretion in *Dionaea muscipula* Ellis (Venus's Flytrap) 263

Ruyters, G., s. Kowallik, W. 11

Schaefer, N., s. Wildes, R.A., *et al.* 35

Schönherr, J.: Water Permeability of Isolated Cuticular Membranes: The Effect of pH and Cations on Diffusion, Hydrodynamic Permeability and Size of Polar Pores in the Cutin Matrix 113

Scowcroft, W.R., s. Gibson, A.H., *et al.* 233

Sexton, R.: Some Ultrastructural Observations on the Nature of Foliar Abscission in *Impatiens sultani* 49

Sharkey, P.J., Pate, J.S.: Translocation from Leaves to Fruits of a Legume, Studied by a Phloem Bleeding Technique: Diurnal Changes and Effects of Continuous Darkness . . 63

Sim, A., s. Macklon, A.E.S. 5

Sitte, O., s. Winkenbach, F., *et al.* 23

Srivastav, H.N., s. Laloraya, M.M., *et al.* 275

Steer, B.T., Pearson, C.J.: Photosynthate Translocation in *Capsicum annuum* 155

Stelter, W., s. Jeschke, W.D. 107
Stichler, W., s. Ziegler, H., *et al.* 85
Tevini, M.: Veränderungen der Glyko- und Phospholipidgehalte während der Blattvergilbung 167
Tevini, M., s. Uhrig, U. 273
Theimer, R.R., Anding, G., Matzner, P.: Kinetin Action on the Development of Microbody Enzymes in Sunflower Cotyledons in the Dark 41
Traquair, J.A., s. Moore, L.F. 179
Trimborn, P., s. Ziegler, H., *et al.* 85
Uhrig, U., Tevini, M.: Effekte der Phospholipase D auf den Elektronentransport und die Lipidzusammensetzung isolierter Spinatchloroplasten 173
Vennesland, B., s. Pistorius, E.K., *et al.* 73
Vennesland, B., Jetschmann, K.: The Effect of Cyanide and some other Carbonyl Binding Reagents on Glycolate Excretion by *Chlorella vulgaris* 81
Voss, H., s. Pistorius, E.K., *et al.* 73
Wardlaw, I.F., Moncur, L.: Source, Sink and Hormonal Control of Translocation in Wheat 93
Wattendorff, J.: Ultrastructure of the Suberized Styloid Crystal Cells in *Agave* Leaves 163
Wildes, R.A., Pitman, M.G., Schaefer, N.: Inhibition of Ion Uptake to Barley Roots by Cycloheximide 35
Winkenbach, F., Falk, H., Liedvogel, B., Sitte, O.: Chromoplasts of *Tropaeolum majus* L.: Isolation and Characterization of Lipoprotein Elements 23
Wulff, R., Briceño, M.: Light and Temperature Interaction in the Photocontrol of Germination of Seeds in *Ludwigia octovalvis* 195
Zetsche, K., s. Bachmann, P., *et al.* 241
Ziegler, H., Osmond, C.B., Stichler, W., Trimborn, P.: Hydrogen Isotope Discrimination in Higher Plants: Correlation with Photosynthetic Pathway and Environment . . 85

Indexed in Current Contents